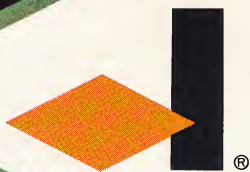


new
Products,
new
Image



DIAMOND CHAIN COMPANY

PURPOSEFUL GROWTH IN POWER TRANSMISSION

ONE OF THE **Amsted**
INDUSTRIES

What the big changes at Diamond Chain
mean for your Business...

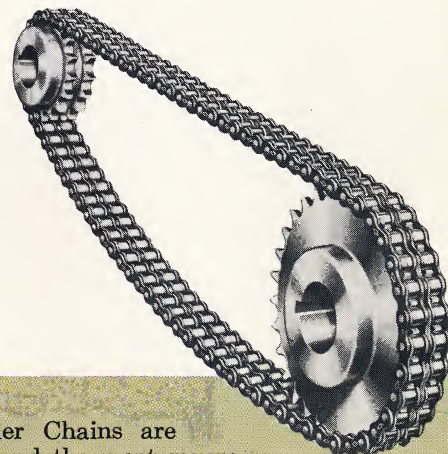
for your business . . . BIG CHANGES at Diamond Chain mean

DIAMOND NOW OFFERS

A FULL LINE OF POWER PRODUCTS TO MEET YOUR

For three-quarters of a century, industry has recognized the quality, durability, and long-range economy of DIAMOND roller chain. Now, we offer a full line of DIAMOND power transmission products, designed to work efficiently . . . individually or teamed together.

Like DIAMOND Roller Chain,
each of these products
is produced in accordance with
highest quality standards
. . . BUILT TO LAST LONGER

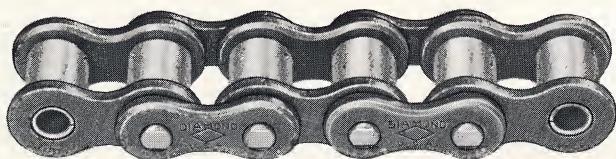


ROLLER CHAIN

DIAMOND Roller Chains are built to withstand the most severe service, whether it be on extremely slow speed drives or medium or high speed applications.

Shop-peening of pins, rollers, linkplates, and bushings; ball-drifting of linkplate pitch-holes; heat treatment of all parts in controlled atmosphere furnaces to provide strength and durability; and factory preloading of chain to eliminate initial "stretch" and assure ultimate "operating length" when delivered to you . . . are only a few of DIAMOND's many manufacturing processes to give you a long-lasting roller chain with the ultimate in performance capabilities.

HEAVY SERIES CHAIN



DIAMOND Heavy Series roller chains are made with thicker linkplates to better absorb shock loads.

Use them on applications where there has been a history of chain failures with linkplate fractures at 90° to the pitch line. In most instances, DIAMOND Heavy Series Chain will solve your "steel fatigue" problems.

Heavy Series Chain comes in both single and multiple strands. Ask for our recommendation without obligation.

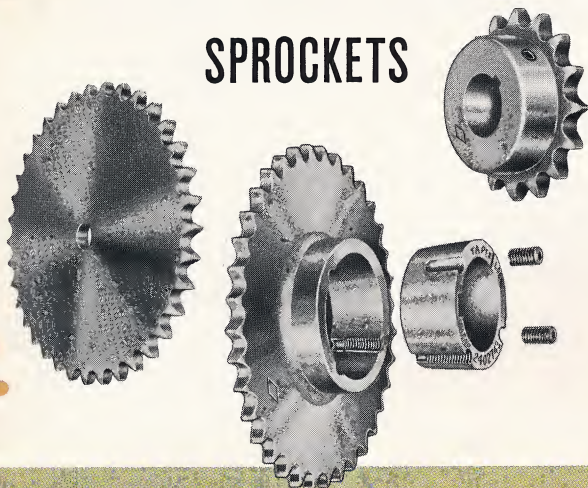
CONVEYOR CHAIN

DIAMOND can design and build special chains to meet a wide range of unusual conveyor requirements. Many chain variations with extended pins, and bent or straight attachments can be furnished from stock.



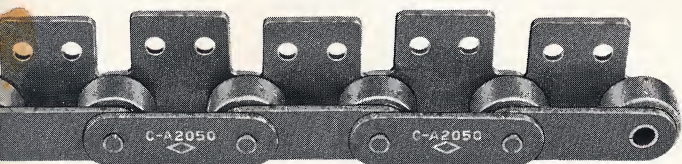
R TRANSMISSION YOUR REQUIREMENTS

SPROCKETS



DIAMOND sprockets are machine-cut to American Standard tooth form with special attention given to flatness, concentricity and caliper diameter. Use them with DIAMOND roller chain for a great power transmission team. Finished-bore (KW & SS) stock sprockets are off-the-shelf items—over 87 tooth sizes with more than 300 accurately finished stock bores. Economical to use . . . one or a hundred.

Taper-Lock sprockets with the popular "Taper-Lock" bushings are also stock items . . . bore sizes in 1/16" multiples within the wide range of bushing design limits.

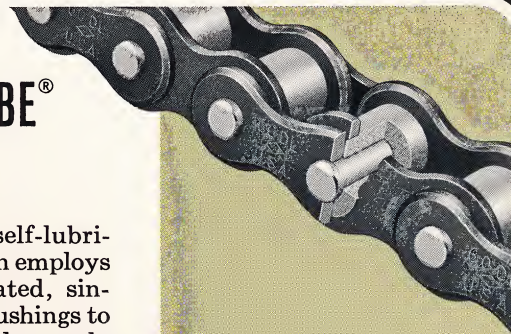


DURAWELD® CHAIN

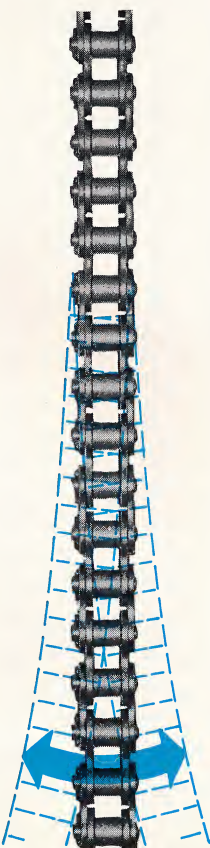
Duraweld Conveyor Chain incorporates the precision and wear-resistant quality features of other DIAMOND Roller Chains. The top plates are "projection welded" to the base chain. *Duraweld* Conveyor Chain offers the important advantage over hinge-type top plate conveyor chain of longer service-life. *Duraweld* Conveyor Chain is designed especially for economical, automated packaging and handling of foods, beverages, and small packages.

DURALUBE® CHAIN

Duralube "self-lubricating" chain employs oil-impregnated, sintered steel bushings to meter a steady supply of lubricant to all contacting surfaces. This oil film prevents joint freezing and excessive wear where outdoor exposure and/or infrequent lubrication present a problem.

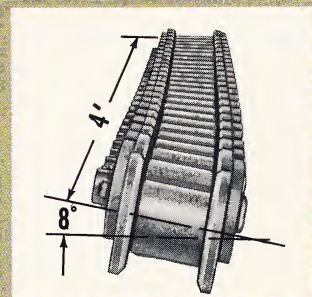


Duralube chain is widely used on applications where external lubrication is restricted in order to prevent product spoilage or contamination.

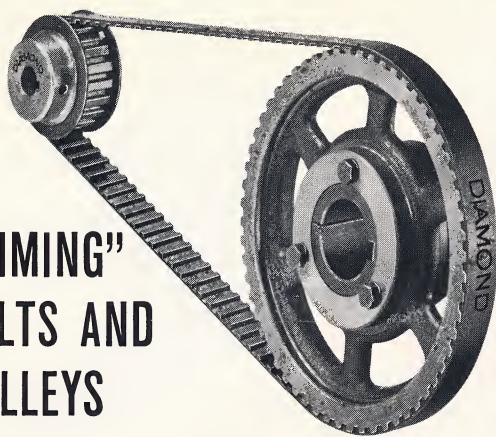


TUF-FLEX®

Tuf-Flex Roller Chain is a rugged, new, *straight-link* extra-clearance chain—especially engineered by DIAMOND to provide a longer-lasting power transmission chain for heavy-duty construction machinery, such as concrete transit-mix trucks, power shovels, oven conveyors, and mining machinery.

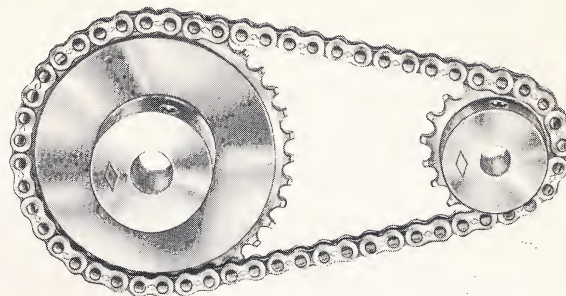


"TIMING" BELTS AND PULLEYS



DIAMOND patented *Timing* belt drives combine the flexibility and smoothness of ordinary belt drives with the positive action of chain and gear drives, but do not require lubrication, tensioning, or take-up devices.

DIAMOND stocks a wide selection of *Timing* belts and pulleys from 1/5" pitch through 1-1/4" pitch. Stock pulleys available with both *Taper-Lock* and *Q.D.* tapered bushings.



MICROPITCH® CHAIN

Where space is limited or where light weight is an important factor and a precision chain is required—*Micropitch* Chain could be the answer. *Micropitch* bushing chain is made from 18-8 stainless steel, has a tensile strength of 180 pounds, and weighs only 1/2 oz. per foot.

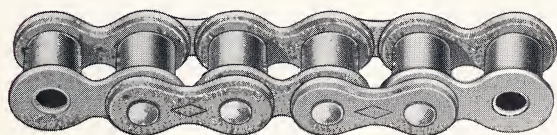
Micropitch chain is especially suitable for compact drive applications for which accurate synchronization or registry is required.

DOUBLE-PITCH ROLLER CHAIN



Take advantage of lower priced double-pitch roller chain on applications where the nature of service, life expectancy, and type of loading permit the use of such chain. This lightweight, durable, and economical double-pitch roller chain is also made in the *Duralube* self-lubricating type. Several popular sizes are available from stock.

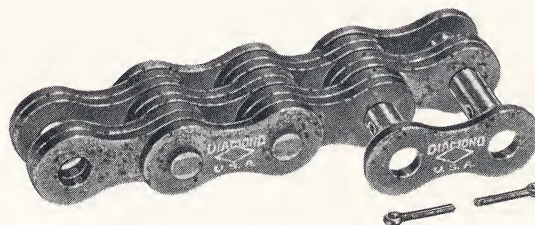
STAINLESS STEEL AND BRONZE ROLLER CHAIN



We recommend our "standard" (400 series) stainless steel chain with heat treated pins and bushings for longer wear life and resistance to corrosion.

Where special conditions demand it, we can furnish 18-8 stainless, cadmium plated standard steel, or bronze chains. Most corrosion resistant chains are available with extended pins, straight or bent attachments, and in economical double-pitch.

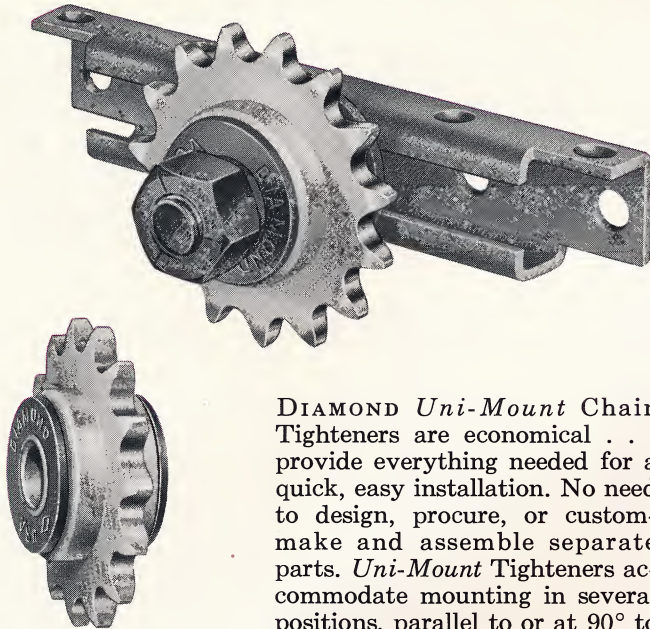
LEAF CHAIN



DIAMOND Leaf chains are assemblies of pins and linkplates made from carefully selected steels and heat-treated for optimum tensile strength. The pins and linkplates are further processed by shot-peening to provide increased endurance under repeated heavy loading.

Leaf chains are available in a "light" and "heavy" series with a wide variety of lacings and size specifications—standard type connecting links.

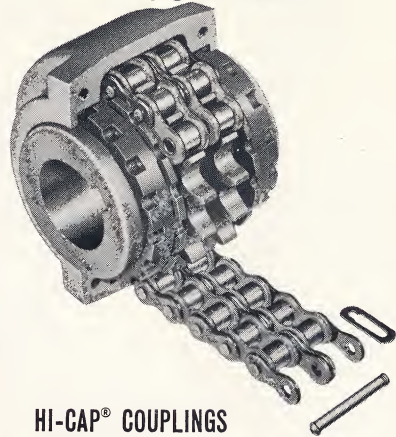
UNI-MOUNT® CHAIN TIGHTENER



DIAMOND *Uni-Mount* Chain Tighteners are economical . . . provide everything needed for a quick, easy installation. No need to design, procure, or custom-make and assemble separate parts. *Uni-Mount* Tighteners accommodate mounting in several positions, parallel to or at 90° to the mounting surface, as a cantilever or attached at each end.

Uni-Mount Idler Sprockets (hardened) operate on smooth-running, oil impregnated, sintered bronze, extra-duty bearings.

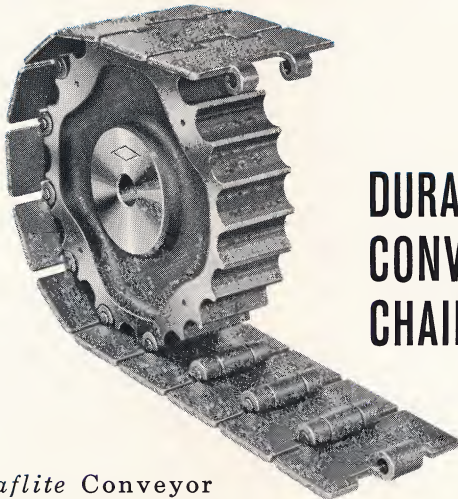
COUPLINGS



HI-CAP® COUPLINGS

These high-torque capacity couplings combine DIAMOND press-fit centerplate roller chain and hardened sprockets to provide an extremely durable flexible coupling. Low initial cost.

Easy to install or disconnect—require minimum maintenance—costs less per service hour. *Hi-Cap* couplings are available with stock finished-bores from 1/2" to 4-15/16" and the "taper-lock" bushed bores from 1/2" to 3".

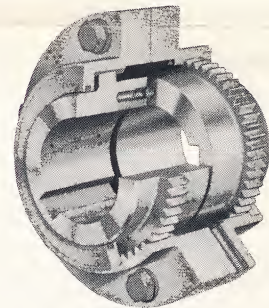


DURAFLITE® CONVEYOR CHAIN

Duraflite Conveyor Chains provide low initial cost. They are widely used to convey bottles or cans through filling and closing machines, or small packages or parts in automated systems.

This 1-1/2" pitch hinge-type "top-plate" conveyor chain made in two useful widths—3-1/4" and 4-1/2"—is available from stock in carbon steel, "300 series" stainless steel, or molded "Delrin"* with stainless steel connecting pins. *Duraflite* conveyor chains are interchangeable with similar chains made by other manufacturers.

*DuPont's registered trademark for its acetal resin.



GEARFLEX® COUPLINGS

DIAMOND *Gearflex* Couplings utilize crowned tips and "barreled" faces of gear teeth on the hub members to virtually eliminate normal backlash once thought necessary to accommodate misalignment. *Gearflex* Couplings accept as much as 1-1/2 degrees combined angular and offset misalignment per engagement, or 3 degrees total between the shafts. Types GDE and GMM can be mated with other popular gear type couplings.

Use self-adjusting *Gearflex* Couplings to combine long service-life with maximum bearing protection, high torque capacity, and minimum backlash.

"Gearflex" couplings not for sale outside the United States of America

DIAMOND[®]

ROLLER CHAINS

ARE BUILT TO LAST LONGER!

At right are just a few of the many sound reasons why Diamond roller chains last longer . . . deliver more hours of useful work with less downtime, lower maintenance, and replacement costs.

Diamond quality . . . both in design and workmanship . . . is the result of three-quarters of a century of specialization in solving difficult problems of load, shock, fatigue, and abrasion. Continuous research, testing, and development assure highest standards of quality throughout Diamond's full line of power transmission products.

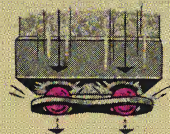
DIAMOND CHAIN COMPANY

402 Kentucky Avenue
Indianapolis, Indiana 46207



FACTORY PRE-LOADING

DIAMOND helps you minimize costly delays and take-up adjustments by pre-loading chain to eliminate initial "stretch." Close chain-length control assures uniform assemblies on fixed-center shafts.



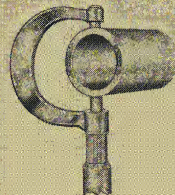
BALL DRIFTED LINKPLATE HOLES

DIAMOND linkplates are ball drifted to remove tool marks and provide optimum linkplate/pin retention. This patented process assures greater chain capability.



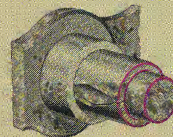
POSITIONED BUSHINGS

Bushings are seam positioned for longer service-life. Pins and rollers have smooth, continuous bearing surfaces as the chain articulates under load.



PRECISION-MADE ROLLERS

Rollers and bushings are sized to near-perfect roundness for maximum bearing area and smooth operation. Scientifically heat-treated, they contribute to longer chain life under load.



CARBURIZED PINS AND BUSHINGS

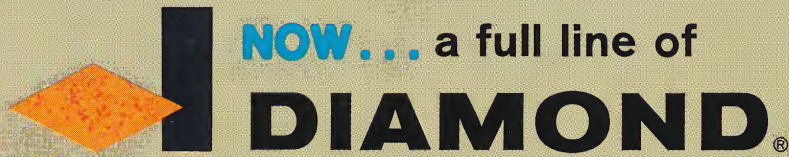
DIAMOND chain is "built" to last longer by optimum depth "case" of proper carbon content and hardness on pins and bushings by controlled-atmosphere heat treatment.



SHOT-PEENED PARTS

A cold working process called shot-peening fortifies all DIAMOND chain parts against metal fatigue . . . develops higher endurance . . . makes DIAMOND chains unsurpassed for rugged service applications.

75 years of leadership



NOW... a full line of

DIAMOND®

products to meet your power
transmission requirements

available from:

DIAMOND[®]

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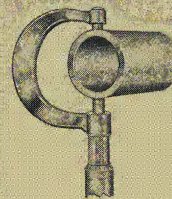
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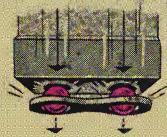
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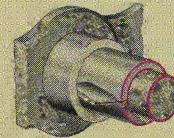
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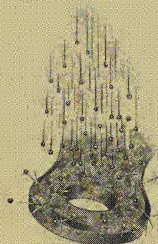
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